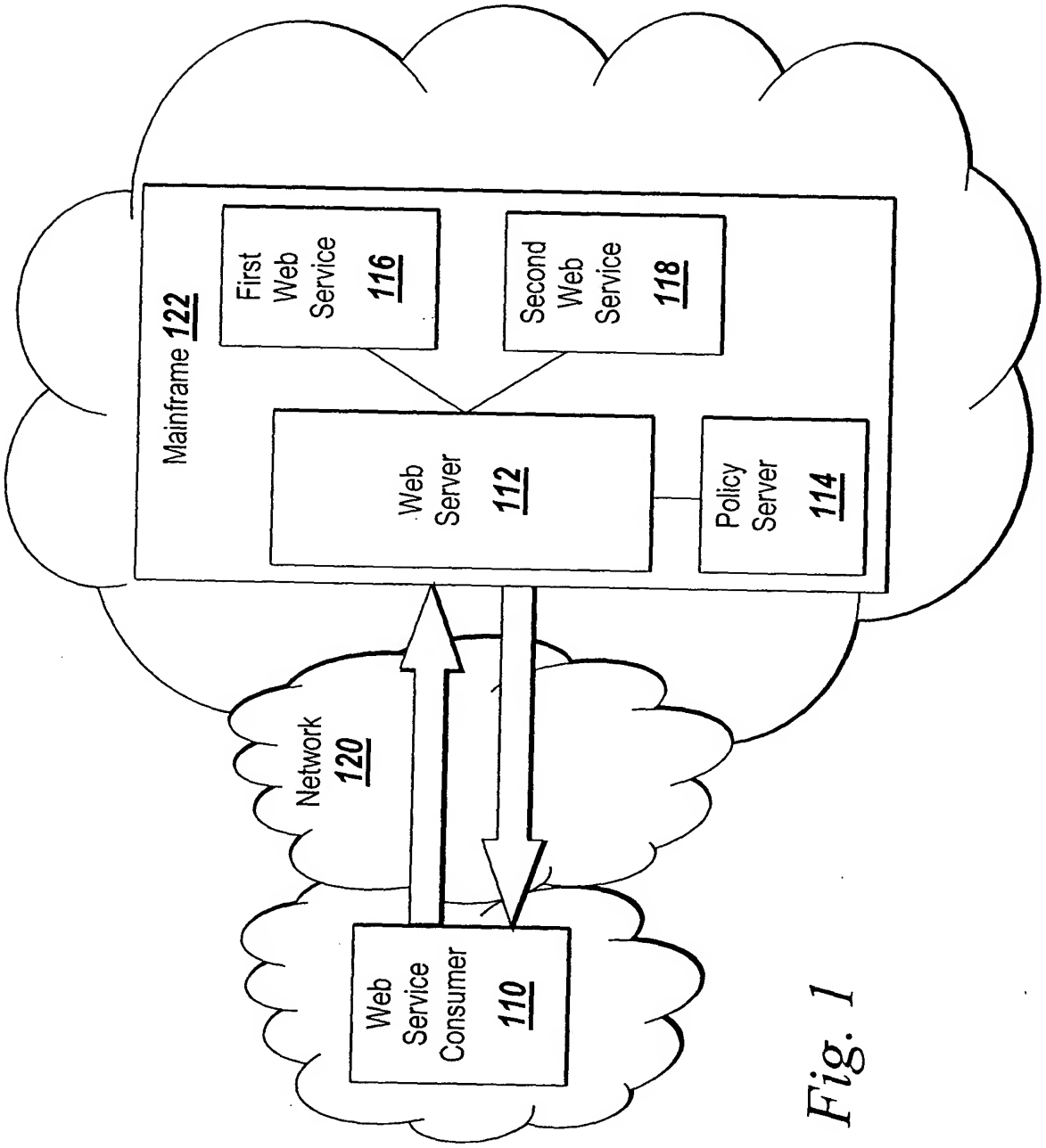
Mainframe 122
First Web Service 116
Second Web Service 118
Web Server 112
Policy Server 114
Network 120
Web Service Consumer 110

Fig. 1

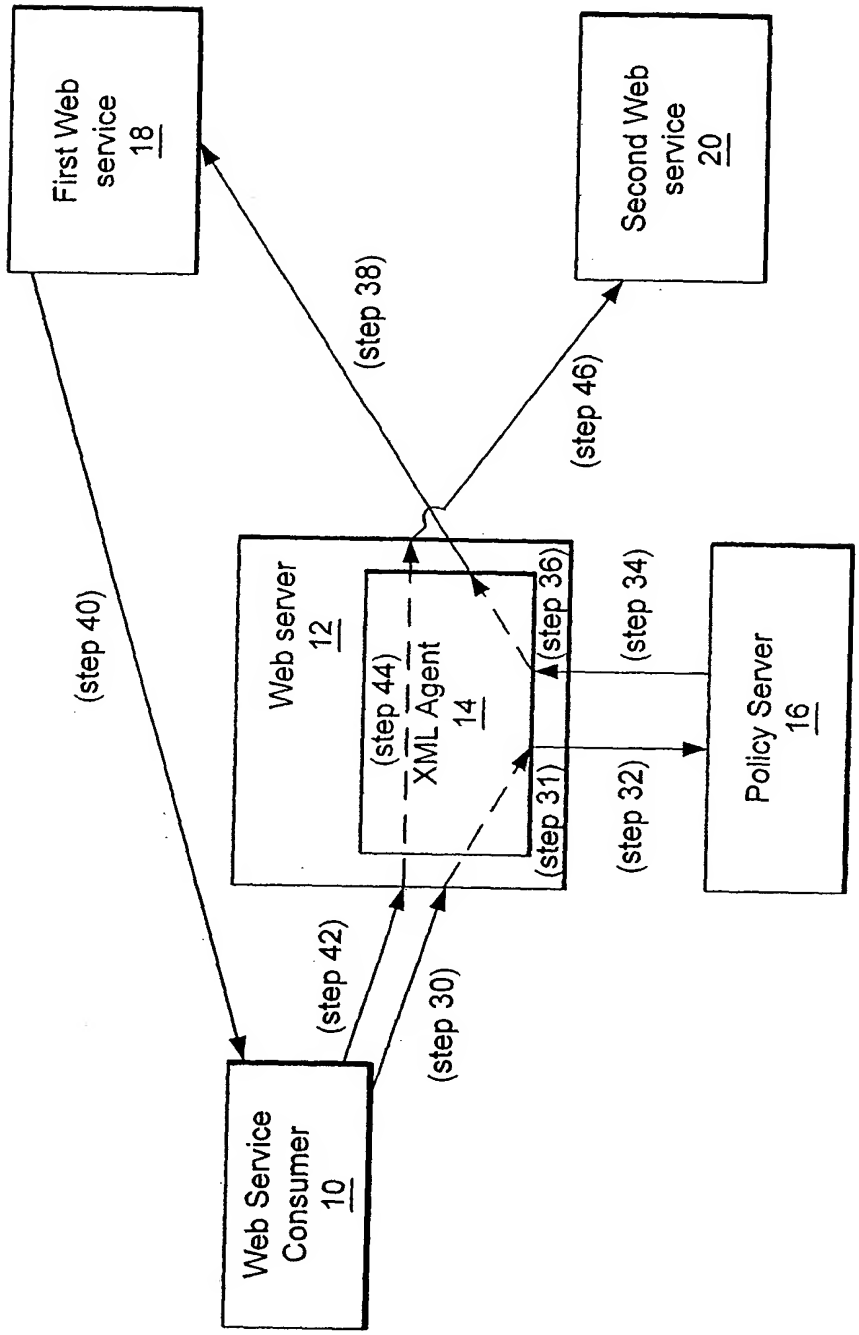
First Web service 18
Second Web service 20
(step 38)
(step 46)
(step 40)
Web server 12
(step 44)
XML Agent 14
(step 36)
(step 34)
(step 31)
(step 32)
Policy Server 16
(step 42)
(step 30)
Web Service Consumer 10

Fig. 2A

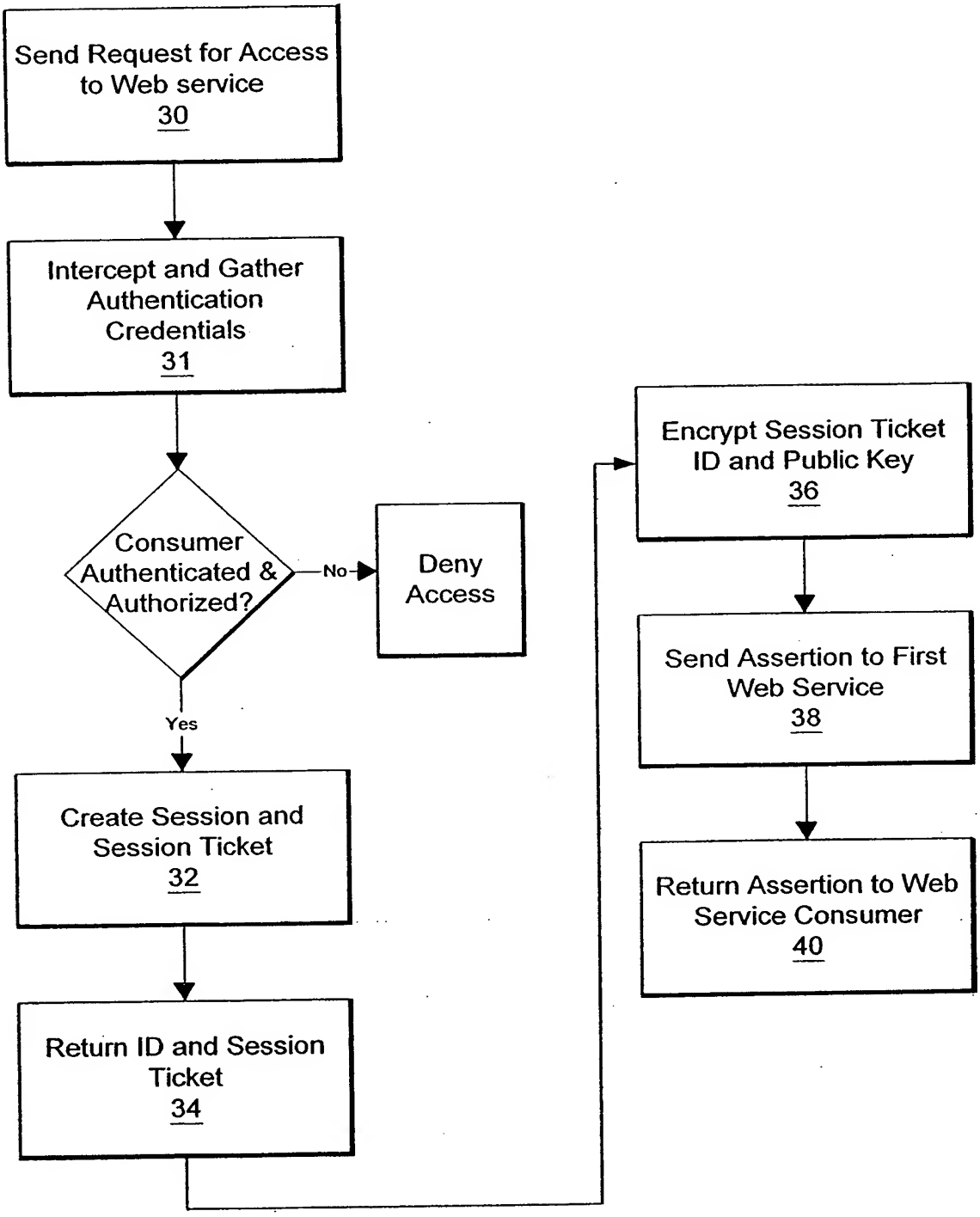
Send Request for Access to Web service 30
Intercept and Gather Authentication Credentials 31
Consumer Authenticated & Authorized?
No
Deny Access
Yes
Create Session and Session Ticket 32
Return ID and Session Ticket 34
Encrypt Session Ticket ID and Public Key 36
Send Assertion to First Web Service 38
Return Assertion to Web Service Consumer 40

Fig. 2B

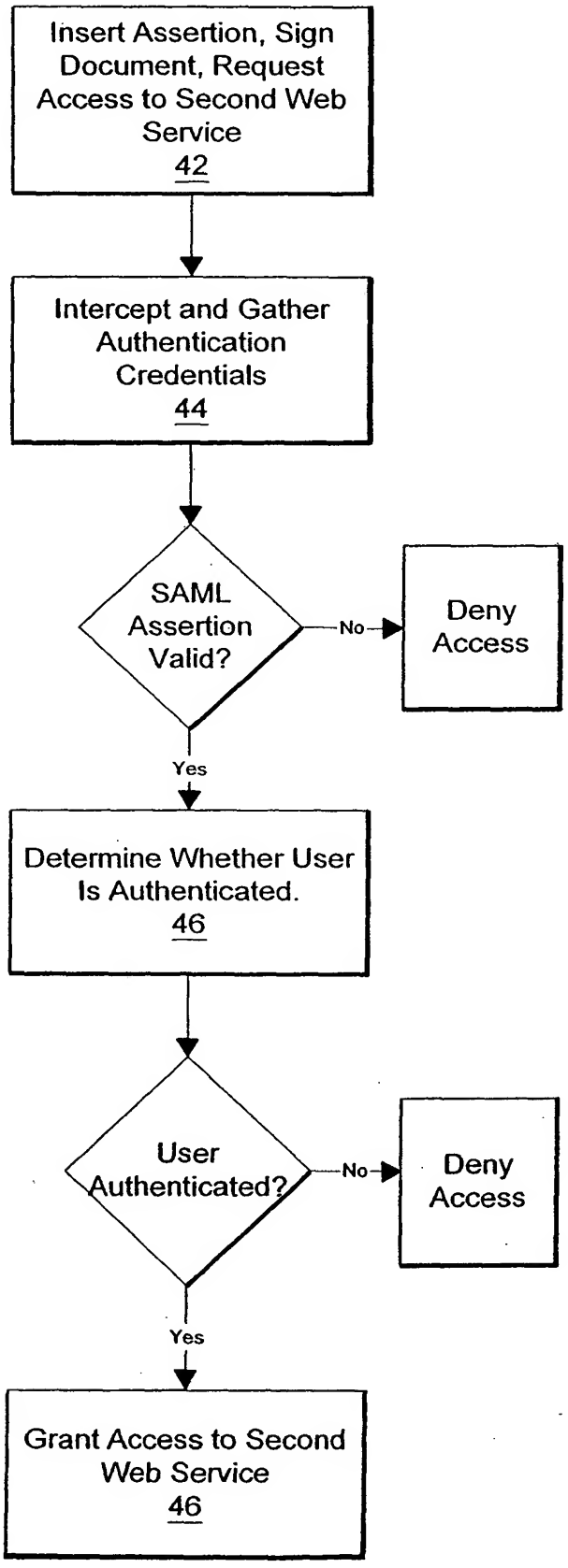
Insert Assertion, Sign Document, Request Access to Second Web Service
42
Intercept and Gather Authentication Credentials
44
SAML Assertion Valid?
No
Deny Access
Yes
Determine Whether User Is Authenticated.
46
User Authenticated?
No
Deny Access
Yes
Grant Access to Second Web Service
46

Fig. 2C

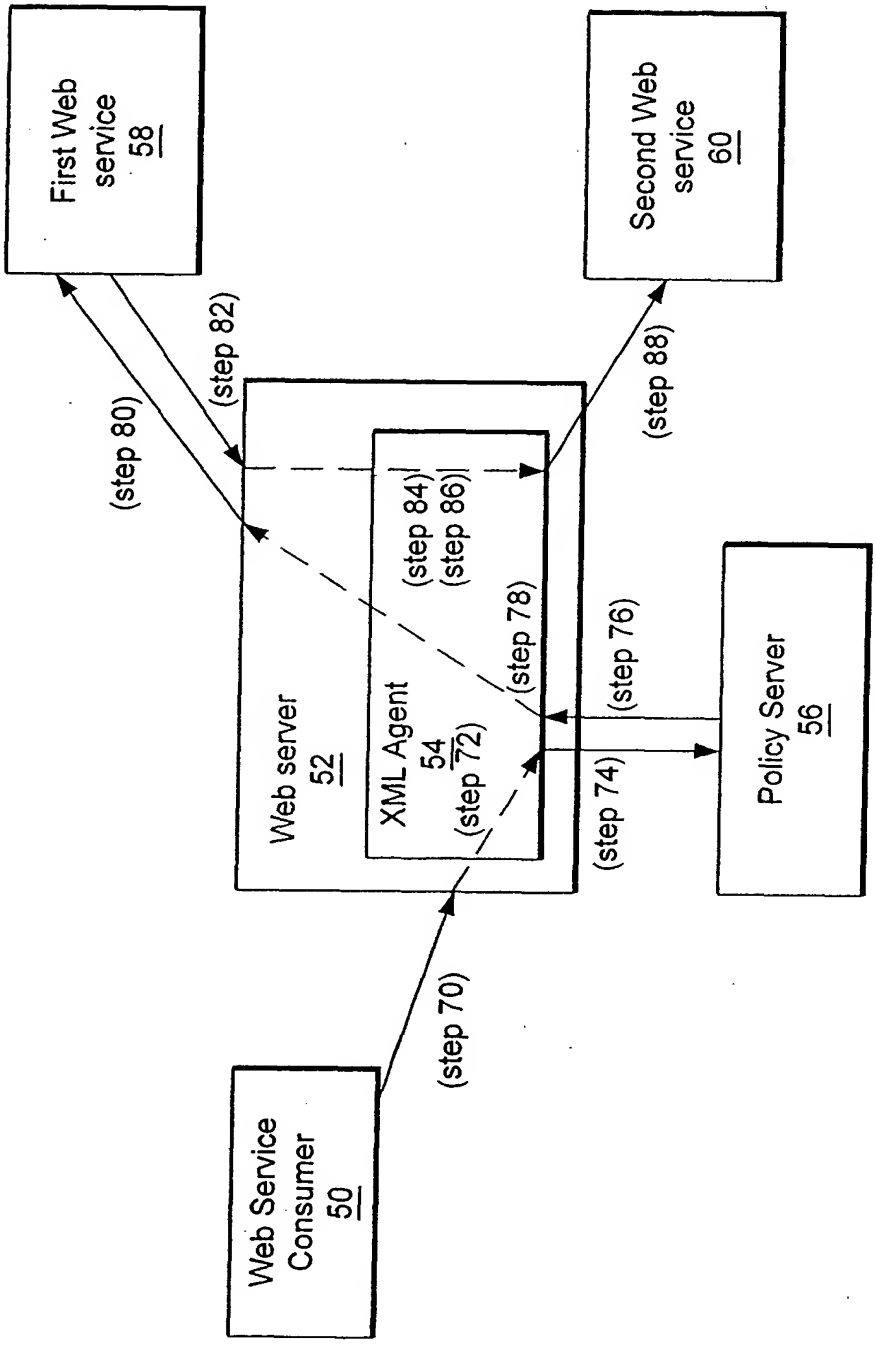
First Web service 58
Second Web service 60
(step 80)
(step 82)
(step 88)
Web server 52
XML Agent 54
(step 72)
(step 78)
(step 84)
(step 86)
(step 76)
(step 74)
Policy Server 56
(step 70)
Web Service Consumer 50

Fig. 3A

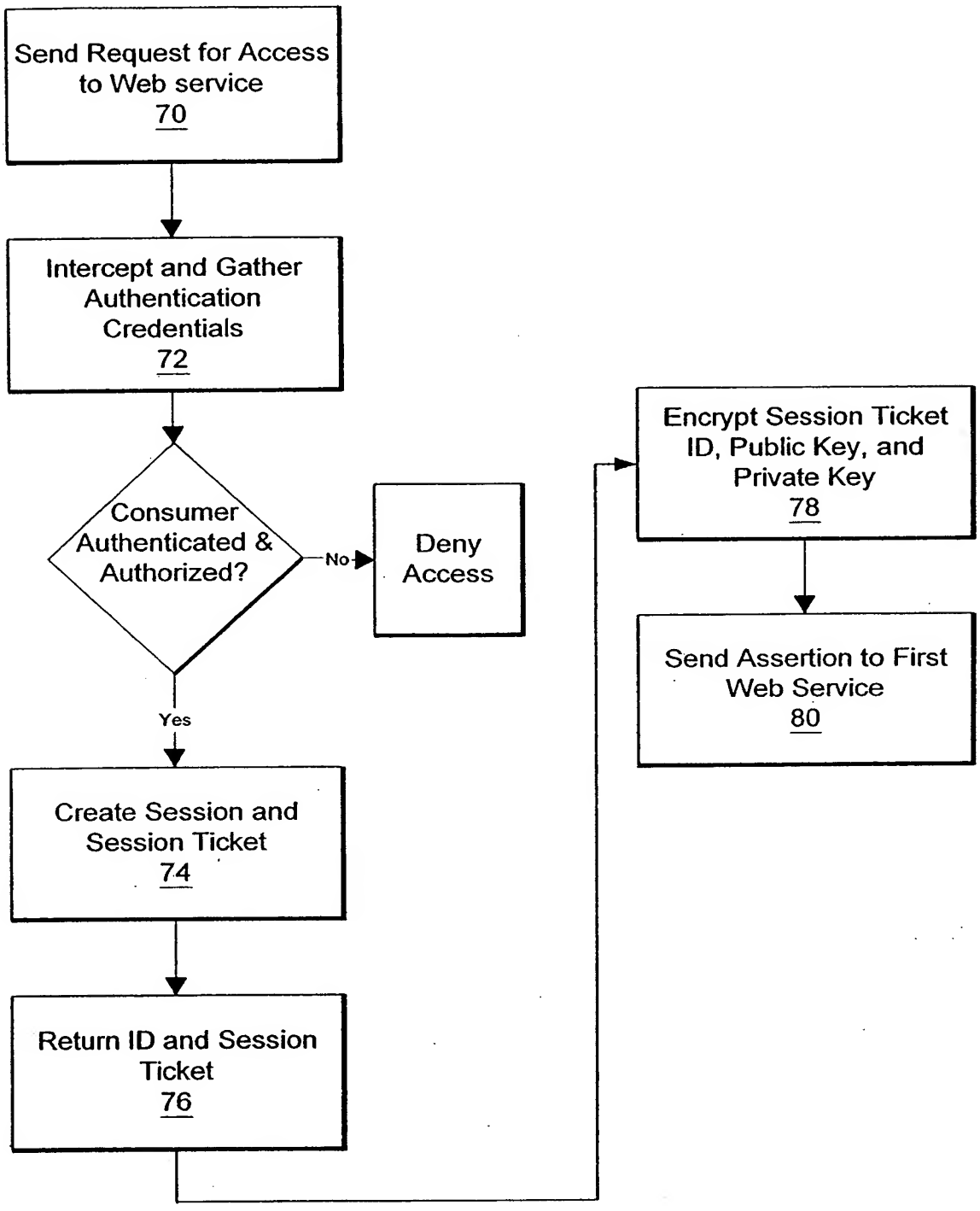
Send Request for Access to Web service
70
Intercept and Gather Authentication Credentials
72
Consumer Authenticated & Authorized?
No
Deny Access
Yes
Create Session and Session Ticket
74
Return ID and Session Ticket
76
Encrypt Session Ticket ID, Public Key, and Private Key
78
Send Assertion to First Web Service
80

Fig. 3B

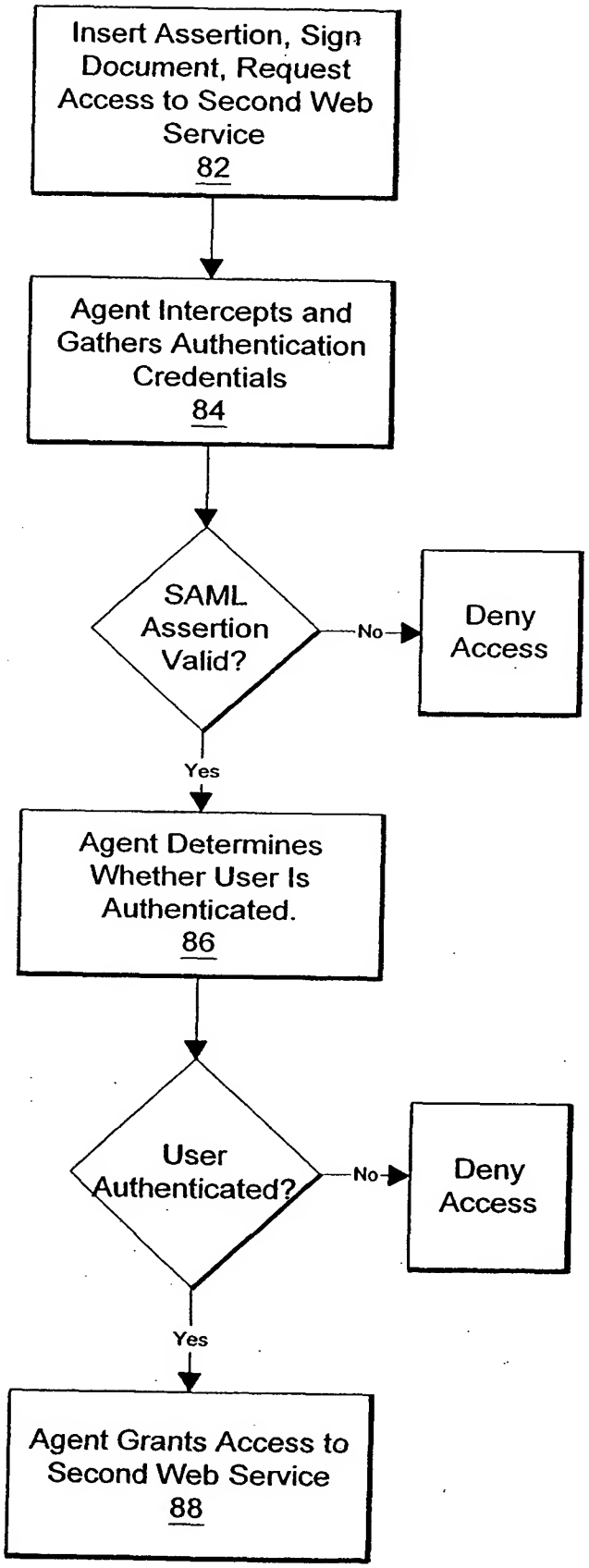
Insert Assertion, Sign Document, Request Access to Second Web Service
82
Agent Intercepts and Gathers Authentication Credentials
84
SAML Assertion Valid?
No
Deny Access
Yes
Agent Determines Whether User Is Authenticated.
86
User Authenticated?
No
Deny Access
Yes
Agent Grants Access to Second Web Service
88

Fig. 3C